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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **63130661 A**

(43) Date of publication of application: **02.06.1988**

(51) Int. Cl **C08L 75/04**
C08J 5/18

(21) Application number: **61277613**
(22) Date of filing: **20.11.1986**

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(54) **NON-POROUS MOISTURE-PERMEABLE WATERPROOF FILM**

(57) Abstract:

PURPOSE: To obtain the title waterproof film having excellent flexibility and mechanical strengths, high moisture-permeability and high waterproofness, by using a polyurethane resin as the main component, adding a dimethylpolysiloxane or a modified product thereof thereto and specifying the film thickness.

CONSTITUTION: A non-porous moisture-permeable waterproof film having a thickness of $3W100\mu$ is obtd. by using a polyurethane resin as the main component

and blending 0.1W5wt% dimethylpolysiloxane or modified product thereof. When the polyurethane resin is blended with the dimethylpolysiloxane or its modified product, amino-modified silicone oil or alcohol-modified silicone oil is reacted with isocyanate groups, because the silicone oil has a functional group such as an amino or hydroxyl group. As a result, a crosslinked structure is formed in the polyurethane resin so that the moisture permeability is improved, bleedout toward the surface is inhibited and hence the stability is high, as compared with the case where the dimethylpolysiloxane or other modified product is blended.

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